

PRESSURE-SENSING GUIDEWIRE AND SHEATH

ABSTRACT OF THE DISCLOSURE

A pressure sensing device is provided that can monitor and measure pressure at two points in a vessel or artery without moving the outer sheath or catheter of the device. The outer sheath or catheter includes two spaced apart openings that may be positioned in a vessel or artery on opposing sides of an occlusion. The device also includes an inner elongated tube with at least one opening. The inner elongated tube is slidable with respect to the outer sheath or catheter thereby permitting the opening of the elongated tube to be moved into selective registration with one of the openings of the outer sheath. A pressure measurement may be taken through one of the openings in the outer sheath by aligning the opening of the elongated tube with said opening and, then, a second pressure reading may be taken by sliding the elongated tube within the outer sheath so that the opening of the elongated tube is in registry with the other opening of the tubular sheath. As a result, pressure measurements at two points in a vessel or artery may be taken without moving the outer sheath or catheter.

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